

**METHOD FOR SUPPORTING A PLURALITY OF SUBSCRIBERS OPERATING ON
DIFFERENT FREQUENCY BANDS USING A SINGLE ACCESS POINT**

Abstract of the Disclosure

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The present invention allows a single access point ("AP"; 100) to support a plurality of devices (102, 104) operating on different frequency bands. During a first period of time, the AP initiates a contention free period at a first frequency. The AP switches from the first frequency to a second frequency, and
10 communicates with devices operating at the second frequency. Periodically during the first period of time, the AP temporarily ceases communication with devices operating at the second frequency to initiate a contention free period at the second frequency, switch from the second frequency to the first frequency, initiate
15 another contention free period at the first frequency, and switch from the first frequency back to the second frequency.